



Exhibit Specimen List

FLORIDA SUBMERGED

The Cretaceous, Paleocene, and Eocene
(145 to 34 million years ago)

FLORIDA FORMATIONS

Avon Park Formation, Dolostone from Eocene time; Citrus County, Florida; with echinoid sand dollar fossil (*Periarchus lyelli*); specimen from Florida Geological Survey

Avon Park Formation, Limestone from Eocene time; Citrus County, Florida; with organic layers containing seagrass remains from formation in shallow marine environment; specimen from Florida Geological Survey

Ocala Limestone (Upper), Limestone from Eocene time; Jackson County, Florida; with foraminifera; specimen from Florida Geological Survey

Ocala Limestone (Lower), Limestone from Eocene time; Citrus County, Florida; specimens from Tanner Collection

OTHER

Anhydrite, Evaporite from early Cenozoic time; Unknown location, Florida; from subsurface core, showing evaporite sequence, older than Avon Park Formation; specimen from Florida Geological Survey

FOSSILS

Tethyan Gastropod Fossil, (*Velates floridanus*); In Ocala Limestone from Eocene time; Barge Canal spoil island, Levy County, Florida; specimen from Tanner Collection

Echinoid Sea Biscuit Fossils, (*Eupatagus antillarum*); In Ocala Limestone from Eocene time; Barge Canal spoil island, Levy County, Florida; specimens from Tanner Collection

Echinoid Sea Biscuit Fossils, (*Eupatagus antillarum*); In Ocala Limestone from Eocene time; Mouth of Withlacoochee River, Levy County, Florida; specimens from John Sacha Collection

PARADISE ISLAND

The Oligocene
(34 to 23 million years ago)

FLORIDA FORMATIONS

Suwannee Limestone, Dolostone from Oligocene time; Jefferson County, Florida; with echinoid fossils (*Rhyncholampas gouldii*); specimens from Tanner Collection

Marianna Limestone, Limestone from Oligocene time; Jackson County, Florida; specimen from Florida Geological Survey

Bridgeboro Limestone, Limestone from Oligocene time; Washington County, Florida; with rhodoliths (red algae); specimen from Florida Geological Survey

FOSSILS

Agatized Coral, From Oligocene-Miocene time; Withlacoochee River, Florida; specimens from John Sacha Collection, and from Historic Gillespie Collection

Agatized Coral, From Oligocene-Miocene time; Tampa Bay, Florida; specimens from Marie Holocek Collection, and from Tellus Science Museum

Agatized Coral (Blue-eyed variety), From Oligocene-Miocene time; Tampa Bay, Florida; specimen from Historic Gillespie Collection

FLORIDA CONNECTED

The Miocene and Pliocene (23 to 2.6 million years ago)

FLORIDA FORMATIONS

Alum Bluff Group, Sandstone from Miocene time; Apalachicola River, Liberty County, Florida; with palm frond fossil (*Sabalites apalachicolaensis*); specimen from Florida Geological Survey

Torrey Formation (Hawthorn Group), Claystone from Miocene time; Gadsden County, Florida; Attapulgitic clay and clay minerals, carbonate-cemented; specimens from Florida Geological Survey

Coosawatchie Formation (Hawthorn Group), Dolostone from Miocene time; Suwannee River, Columbia County, Florida; with boring clam (*Lithophaga*), fill in burrows is carbonate; specimen from Florida Geological Survey

Miccosukee Formation, Sandstone from Pliocene time; Tallahassee, Leon County, Florida; Coeval with Intracoastal Formation, non-fossiliferous, prodeltaic (formed in delta); specimen from Florida Geological Survey

Intracoastal Formation, Conglomerate from Pliocene time; Washington County, Florida; Mixed clastic carbonate, with rip-up clasts (pieces of rock broken by flowing water); specimen from Florida Geological Survey

Tamiami Formation, Sandstone from Pliocene time; Collier County, Florida; Carbonate-cemented, phosphatic, with echinoid sand dollar fragments (*Encope tamiamiensis*); specimen from Florida Geological Survey

OTHER

Limonite, (Possibly from Pliocene time, Citronelle Formation); Unknown location, Florida; specimen from Historic Gillespie Collection

FOSSILS

Dugong Rib Pieces, (Manatee-like marine mammal), From Miocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Dugong Rib Piece (Phosphate-rich), (Manatee-like marine mammal), From Miocene-Pliocene time; Unknown location, Florida; specimen from Historic Gillespie Collection

Megalodon Shark Teeth, (*Carcharocles megalodon*), From Miocene time; Polk County, Florida; specimens from Historic Gillespie Collection

Megalodon Teeth Fragments, (*Carcharocles megalodon*), From Miocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Shark Teeth, From Miocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Rhinoceros Teeth, From Miocene time; Polk County, Florida; specimens from Historic Gillespie Collection

ICELESS ICE AGE

The Pleistocene (2.6 million to 11,700 years ago)

FLORIDA FORMATIONS

Anastasia Formation, Coquina Limestone from Pleistocene time; St. Augustine, St. Johns County, Florida; Cut block from Lakeview Dirt Co. quarry, supplied replacement blocks for Castillo de San Marcos; specimen from Florida Geological Survey

Anastasia Formation, Coquina Limestone from Pleistocene time; Washington Oaks Beach, Flagler County, Florida; specimen from Tanner Collection

Miami Limestone (Bryozoan Facies), Limestone from Pleistocene time; Miami, Dade County, Florida; Core section, with bioturbation (churned up by organisms); specimen from Florida Geological Survey

Miami Limestone (Oolitic Facies), Limestone from Pleistocene time; Miami, Dade County, Florida; with ooids (spherical, egglike, calcium carbonate grains); specimen from Florida Geological Survey

Key Largo Limestone, Limestone from Pleistocene time; Florida Keys, Monroe County, Florida; Contains coral, cut for septic tanks; specimen from Florida Geological Survey

Fort Thompson Formation, Limestone from Pleistocene time; Palm Beach County, Florida; with oxidized Saharan Desert dust layers (subaerial exposure), carbonate-cemented; specimen from Florida Geological Survey

Sanibel Beach Rock, Coquina Limestone from Pleistocene time; Sanibel Island, Lee County, Florida; Not a "formation" because not laterally continuous, coeval with Anastasia Formation; specimen from Florida Geological Survey

OTHER

Chert, In Ocala Limestone from Eocene time; Silicified later (silica is post early-Miocene); Marion County, Florida; with foraminifera; specimen from Florida Geological Survey

Chert; Unknown location, Florida; specimen from Historic Gillespie Collection

Chert Projectile Point (replica); Chert from unknown location, Florida; made by Ben Tanner

Calcite Crystals, Lecanto, Citrus County, Florida; Crystal River Quarry #2; specimen from Historic Gillespie Collection

FOSSILS

Calcite Crystals with Shells, In limestone from Pleistocene time; Fort Drum, Okeechobee County, Florida; specimens from Historic Gillespie Collection

Drusy Calcite, On coral and limestone; Unknown location, Florida; specimen from Historic Gillespie Collection

Horse Radius Fossil, From Pleistocene time; Santa Fe River, Alachua County, Florida; specimen from John Sacha Collection

Gomphothere Tooth, (Elephant-like proboscidean), From Miocene-Pliocene-Pleistocene time; Polk County, Florida; specimen from Historic Gillespie Collection

Bison Bone Fossil, From Pleistocene time; Unknown location, Florida; specimen from Historic Gillespie Collection

Crab Fossil, Unknown location, Florida; specimen from Historic Gillespie Collection

Glyptodont Osteoderms, (*Glyptotherium floridanum*), (Giant armadillo-like mammal), From Pleistocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

ADDITIONAL FOSSILS

American Mastodon Femur, (*Mammuth americanum*), (Elephant-like proboscidean), From Pliocene-Pleistocene time; Unknown location, Florida; specimen from Gillespie Museum Collection

Alligator Teeth, (*Alligator mississippiensis*), From Miocene-Pliocene-Pleistocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Upper Horse Molars, From Pleistocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Deer Antler Sections, From Pleistocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Entry Hall Specimens

WEST WALL CASE - AGATIZED CORAL

Agatized Coral, From Oligocene-Miocene time; Withlacoochee River, Florida; specimens from John Sacha Collection

Agatized Coral, From Oligocene-Miocene time; Tampa Bay, Florida; specimens from Tellus Science Museum

DESK CASE - CALCITE & AGATIZED CORAL

Calcite Crystals, In coral and shell; Unknown location, Florida; specimens from Historic Gillespie Collection

Agatized Coral, From Oligocene-Miocene time; Tampa Bay, Florida; specimens from Marie Holocek Collection

TOWER CASE - FOSSILS AND KARST LIMESTONE

Whale Vertebra, Unknown location, Florida; specimen from Historic Gillespie Collection

Agatized Coral, From Oligocene-Miocene time; Withlacoochee River, Florida; specimen from Historic Gillespie Collection

Glyptodont Osteoderms, (*Glyptotherium floridanum*), (Giant armadillo-like mammal), From Pleistocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Alligator Osteoderms, (*Alligator mississippiensis*), From Miocene-Pliocene-Pleistocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Giant Tortoise Osteoderms, From Pleistocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Giant Armadillo Osteoderms, (*Holmesina floridanus*), From Pleistocene time; Peace River, Hardee County, Florida; specimens from John Sacha Collection

Agatized Coral, From Oligocene-Miocene time; Tampa Bay, Florida; specimens from Historic Gillespie Collection

Ocala Limestone, Limestone from Eocene time; Unknown location, Florida; specimen from Historic Gillespie Collection

LARGE SPECIMEN CASES (2) - MAMMOTH FOSSILS & CALCITE

Mammoth Skull Fragment, Juvenile Columbian Mammoth, (*Mammuthus columbi*), From Pleistocene time; Peace River, Hardee County, Florida; Showing internal honeycomb structure to lighten skull to allow for weight of tusks; specimen from John Sacha Collection

Mammoth Tooth, From Pleistocene time; Unknown location, Florida; specimen from Historic Gillespie Collection

Calcite Crystals on Limestone, Brooksville, Hernando County, Florida; specimen from Historic Gillespie Collection